BRUHAT BENGALURU MAHANAGARA PALIKE

YELAHANKA ZONE

AME OF WORK : CONSTRUCTION OF MAGIC BOX AT KEMPEGOWDA CIRCLE AND IMPROVEMENTS ROUND THE KEMPEGOWDA STATUE IN WARD NO.01 OF YELAHANKA SUB-DIVISION

Estimate Cost Rs. 12.00 Lakhs

Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
KSRRB 300-49: scarifying bituminous course 50mm to 75mm thick along with premix carpet/surface dressing by manual means without disturbing the base and stacking of the debris materials within a lead of 100 meters including cost of all labour charges complete as per specifications. (P No.147 Item No.19.55)								
	Sqm							
		1	15.00	3.50		52.50		
						52.50	60.42	**3172.05**
Basic Rate	57.00							
Area Weightage @ 6%	3.42							
Total	**60.42**							
KSRB 2-2.1 : Earth work excavation for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No, KBS 2.1(a) / 2.3.5, No.5/Item No. 2.3)								
	Cum							
		1	15.00	3.50	1.80	94.50		
						94.50	200.34	**18932.13**
Basic Rate	189.00							
Area Weightage @ 6%	11.34							
Total	200.34							
Removing B.S. slab of Drain and stacking.(P No.25 / I N 5.32)								
for Drain	Sqm							
approach		2	75.00	1.80		270.00		
						270.00	65.72	**17744.00**
Basic Rate	62.00							
Area Weightage @ 6%	3.72							
Total	**65.72**							
KSRRB 300 - Excavation for road, drains and similar works - KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH Chapter 3 (P.142/I.19.1)								
Desilting for Drain	Cum							
		2	75.00	0.90	1.10	148.50		
						148.50	86.92	**12908.00**
Basic Rate	82.00							

Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
Area Weightage @ 6%	4.92							
Total	**86.92**							
Refixing stone slabs of drains and pointing in C.M.(1:3)(P.No.25/I.No.5.33)								
	Sqm							
		80% of Qty Vide Item No.3				**216.00**	80.56	**17401.00**
Basic Rate	76.00							
Area Weightage @ 6%	4.56							
Total	**80.56**							
Providing and fixing RCC precast Slabs of 0.10 m thick of CC 1:2:4 with 20 mm and down size graded granite metal , machine mixed , including cost of all material , labour , HOM of Machinery , curing complete								
	Sqm							
		20% of Qty Vide Item No.3				**54.00**	2100.00	**113400.00**
Data Rate	**2100.00**							
KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregate /sand/kaner/ Moorum KSRRB M100-1 Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications MORTH -100/ Chapter 1 (Page No.133/ Item No 17.1)								
	Cum							
		Qty Vide Item No.2+4				**243.00**	100.00	**24300.00**
Average Weight of Earth	1.28							
Basic Rate Lead Charges for	32.00							
Add loading and unloading Item	68.00							
Total	**100.00**							
KSRB 4-1.3: Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregates @ 0.57cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No.KBS 4.1, 4.2 (P.12/I.4.3)								
	Cum							
		1	15.00	3.50	0.15	7.88		
		1	5.00	1.80	0.15	1.35		
						9.23	5159.02	**47591.96**
Basic Rate	4867.00							
Area Weightage @ 6%	292.02							
Total	**5159.02**							
KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.21 (P.15 / I.4.31)								
	Sqm							
		2x2	15.00		1.80	108.00		
		2	15.00		0.45	13.50		
		2	3.00		0.45	2.70		

Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
		2x2	5.00		1.20	24.00		
						148.20	310.58	**46027.96**
Basic Rate	293.00							
Area Weightage @ 6%	17.58							
Total	**310.58**							

KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc. and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 (Page No. 15/ Item No. 4.18)

	Sqm							
		1	15.00	1.80		27.00		
		1	5.00	1.20		6.00		
						33.00	331.78	**10948.74**
Basic Rate	313.00							
Area Weightage @ 6%	18.78							
Total	**331.78**							

Providing & laying in position reinforced cement concrete of Design mix M20 with OPC cement @ 320kgs , with 20mm and down size graded granite metal coarseaggregated @ 0.69cum ,and fine aggregated @ 0.460cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed -2008 machine mixed concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings,pedestals,retaining walls, return walls, walls (any thickness) including attached plasters, columns, piers, abutments, pillars, posts,struts, buttresses, bed blocks, anchor blocks, plinths etc.,including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications.specifications No.KBS 4.1,4.6 (P.No.13/ I.No.4.11)

	Cum							
bed		1	15.00	3.50	0.15	7.88		
side wall		2	15.00	0.60	1.80	32.40		
deck		1	15.00	3.00	0.45	20.25		
		1	5.00	1.80	0.15	1.35		
		2	5.00	0.25	1.20	3.00		
		1	5.00	1.80	0.30	2.70		
						67.58	6371.66	**430564.92**
Basic Rate	6011.00							
Area Weightage @ 6%	360.66							
Total	**6371.66**							

Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
KSRB 4.9.2: Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 -do- TMT Bars Fe 500 P.17/It.No.4.46.2								
	tonne	No.of Bars	Vidth/Lengt	Rmtr	Kg/Rmtr	Total in Kg		
	80% of Qty Vide Item No.11				in Qtl	54.0600		
					in tonne	**5.4060**	59413.00	**321186.68**
Basic Rate	56050.00							
Area Weightage @ 6%	3363.00							
Total	**59413.00**							
KSRRB M400- Wet Mix Macadam - KSRRB M400-17. Providing, laying, spreading and compacting graded stones aggregate to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 (P.No.158 I.No.20.18)								
	Cum							
		1	15.00	10.00	0.30	45.00		
						45.00	1768.08	**79564.00**
Basic Rate	1668.00							
Area Weightage @ 6%	100.08							
Total	**1768.08**							
Providing and applying primer coat with ss bitumen emulsion on prepared surface of granular base such as WMM including clearing of road surface and spraying primer at the rate of 0.60 kg/sqm using mechanical means complete as per specifications. MORTH Specification No.502 (P.No.160/It No.21.6)								
	Cum							
		1	15.00	10.00		150.00		
						150.00	27.56	**4134.00**
Basic Rate	26.00							
Area Weightage @ 6%	1.56							
Total	**27.56**							
KSRRB M500- 15. Providing, laying dense graded bituminous macadam using 40/60 TPH capacity H.M.P with Mechanical paver Gr-II (50mm to 75mm), crushed aggregates of specified grading premixed with 4.5% VG 30 grade bituminous binder and , transporting the hot mix to work site , laying to the required level and grade, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications MORTH Specification No 507 (P.No.162&163 It.No.21.17.6)								
	Cum							

Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
		1	15.00	5.00	0.050	3.75		
						3.75	6435.26	24132.00
Basic Rate	6071.00							
Area Weightage @ 6%	364.26							
Total	**6435.26**							

Administrative Sanction for Rs. 12.00 lakh Rs.
is accorded under head P 1771
Registered
to conditions
No 165 Dt: 16-2-17
Chief Engineer

KSRRB 500-7:Providing and applying tack coat with bitumen emulsion using 80/100 grade bitumen (VG20) on the prepared black toped suface at 2.5kg per 10 sqm, heating bitumen in boiler fitted with spray set (Excluding cleaning of road surface) including cost of all materials, labour, HOM of Machineries complete as per Specifications.(P.No.160 & I.No.21.7)

	Sqm							
		1	15.00	5.00		75.00		
						75.00	14.84	1113.00
Basic Rate	14.00							
Area Weightage @ 6%	0.84							
Total	**14.84**							

KSRRB M500- 15. Providing, laying bituminousConcrete using 40/60 THP capacity H.M.P with Mechanical paver Gr-II (30mm to 45mm), crushed aggregates of specified grading premixed with 6% VG 30 grade bituminous binder and , transporting the hot mix to work site , laying to the required level and grade,rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH Specification clause No.500.9 complete in all respects complete as per specifications MORTH Specification No.509 (P No.164 Item No.21.22.6)

	Cum							
		1	15.00	5.00	0.045	3.38		
						3.38	7270.54	24538.07
Basic Rate	6859.00							
Area Weightage @ 6%	411.54							
Total	**7270.54**							
Miscellaneous and unforeseen charges	LS							2341.49
						Grand Total Amount		1200000.00

TECHNICALLY SANCTIONED FOR Rs. 12.00 lakh
Rupees Twelve Lakhs only
2016-17
Registered
Subject to
enclosed memo
Dt
EE/TS/39/16-17
Dated 16-2-2017
12.00 lakh
Executive Engineer

(Rupees Twelve Lakhs Only)

CERTIFICATE

The site has been inspected and the work is found to be necessary.
The rates adopted are as per PW,P IWTD SR of 2016-17 and data rate of Bangalore Circle.
The provisions were made in this estimate are necessary and adequate.
The area comes under the Bruhat Bengaluru Mahanagara Palike Limits.

Assistant Engineer
Ward No.01

Assistant Executive Engineer
Yelahanka Sub-Division
B.B.M.P

Executive Engineer
Yelahanka Division
B.B.M.P

ME OF WORK : CONSTRUCTION OF MAGIC BOX AT KEMPEGOWDA CIRCLE AND IMPROVEMENTS AROUND THE KEMPEGOWDA STATUE IN WARD NO.01 OF YELAHANKA SUB-DIVISION

KEY : NOT TO SCALE

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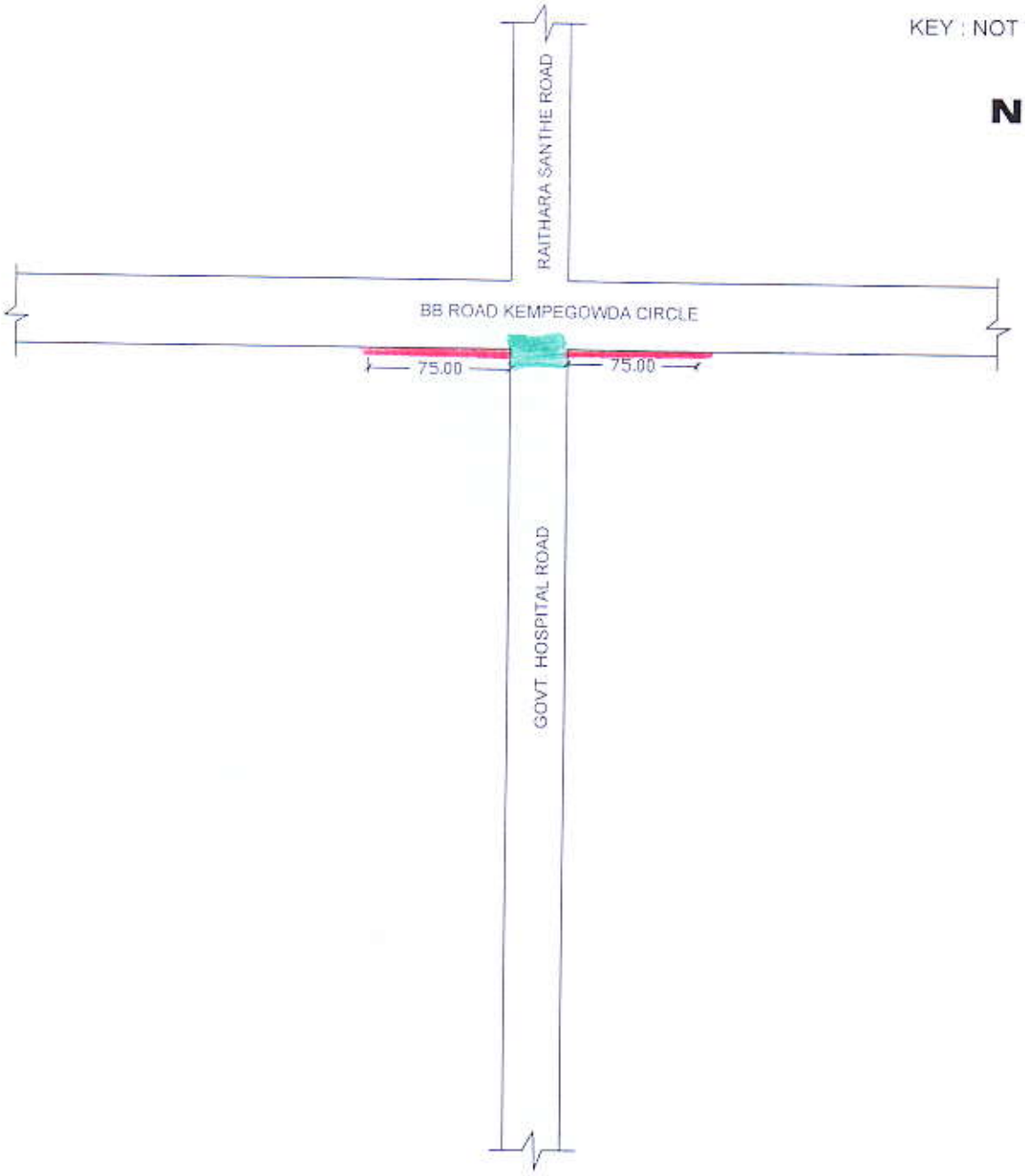

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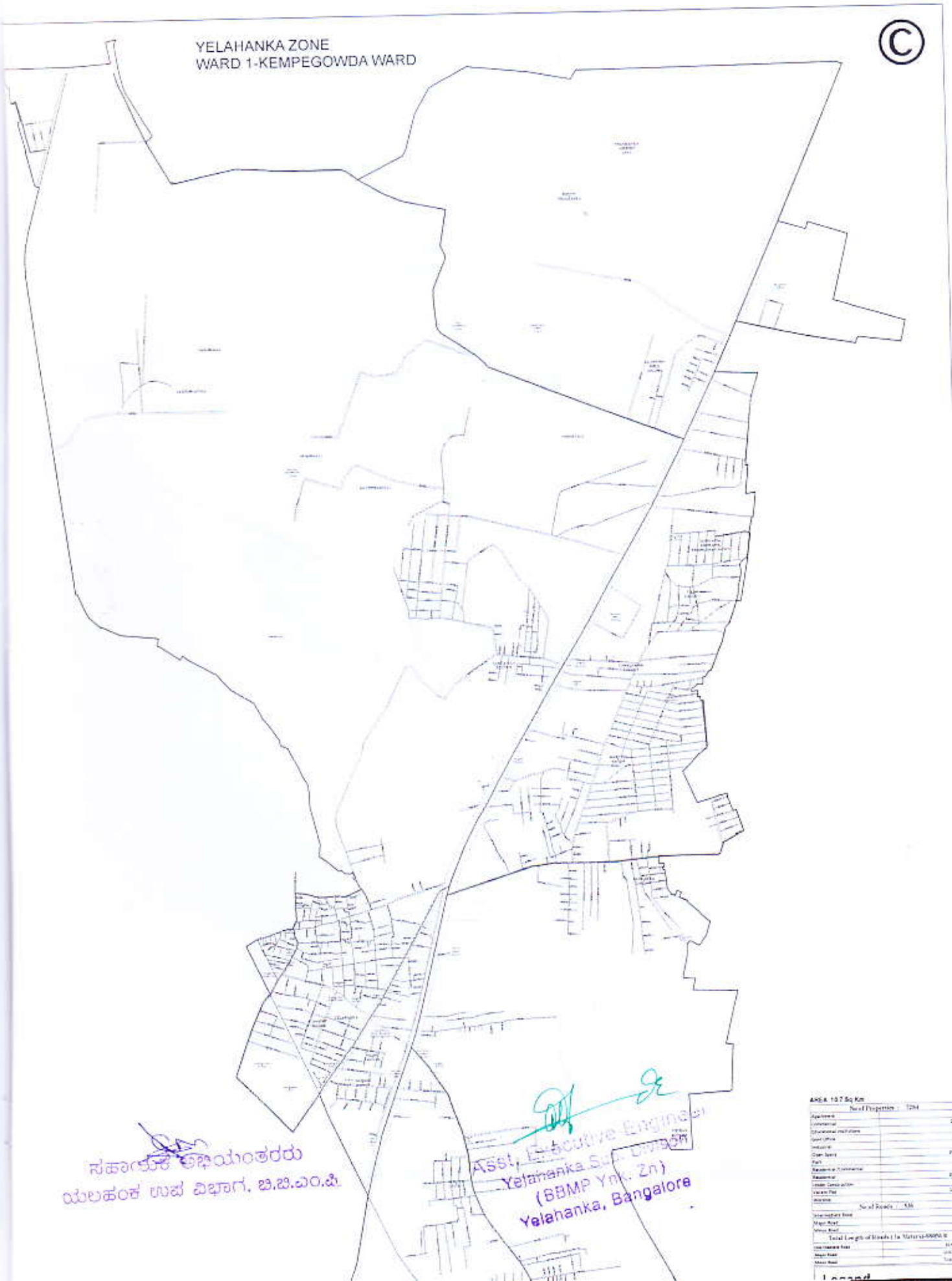
- MAGIC BOX
- DESILTING

Assistant Engineer
Ward No.01
B.B.M.P

Assistant Executive Engineer
Yelahanka Sub-Division
B.B.M.P

YELAHANKA ZONE
WARD 1-KEMPEGOWDA WARD



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Asst. Executive Engineer
Yelahanka Sub. Division
(BBMP Ynk. Zn)
Yelahanka, Bangalore